



Project: Alaska Copper Works

Inspection Date: 1/7/2020

Project No.: 19ACW1

Technician: Elaine Lytle

System Performance:

Was system running during the inspection? ☒ Yes ☐ No

| | | | | | |
|--------------------------------|----------|-------------|----------|--------------|---|
| Flow Rates (gpm) | Influent | <u>90.2</u> | Effluent | <u>151.9</u> | The flows should be ~155 gpm |
| Bag Filter #1 Pressures (psi) | Influent | <u>12</u> | Effluent | <u>14</u> | The bag filters should be replaced if differential pressure > 8 psi |
| Bag Filter #2 Pressures (psi) | Influent | <u>12</u> | Effluent | <u>12</u> | |
| Carbon Filter Pressures (Lead) | Influent | <u>12</u> | Effluent | <u>5</u> | The carbon filters should be backflushed if differential pressure > 8 psi |
| Carbon Filter Pressures (Lag) | Influent | <u>4</u> | Effluent | <u>0</u> | |

Were the bag filters replaced? ☐ Yes ☒ No

Was the carbon backflushed? ☐ Yes ☒ No

Maintenance and Inspection Checklist:

| Task | Completed (Y/N) | Issues/Notes/Comments |
|----------------------------------|---|---|
| Walchem Controller Inspected | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | No issues |
| Flow Meters Inspected | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Reading properly |
| Level Sensor Cleaning/Inspection | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Reading properly |
| Inspect System Plumbing | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | No leaks |
| Pumps Inspected | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Running properly |
| General Housekeeping | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Clean other than used cartridge filters on ground |
| Chemistry Level | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 1 full 55 gallon drum, one empty |
| Safety Materials Inspected | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | All there in job box |
| pH Probe Inspection/Calibration | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Calibrated from 6.91 to 6.97 |



Water Sampling:

Were water samples taken? ☒ Yes ☐ No

| | | | | | |
|------------------------|----|-------------|-----------|-------------|-----|
| Raw water: | pH | <u>6.15</u> | Turbidity | <u>5.62</u> | NTU |
| Bag Filter Influent | pH | <u>9.87</u> | Turbidity | <u>7.35</u> | NTU |
| Bag Filter Effluent | pH | <u>9.22</u> | Turbidity | <u>7.87</u> | NTU |
| Carbon Filter Influent | pH | <u>7.88</u> | Turbidity | <u>2.06</u> | NTU |
| Carbon Filter Effluent | pH | <u>7.72</u> | Turbidity | <u>3.76</u> | NTU |

Monthly Tasks:

Were samples submitted to Analytical? ☐ Yes ☒ No

Analytical Lab: N/A

Was Walchem data downloaded? ☐ Yes ☒ No

Were the tank sludge levels checked? ☐ Yes ☒ No

Sludge Depth (inches):

| | |
|---------------------|------------|
| Decant Tank: | <u>N/A</u> |
| Treatment tank: | <u>N/A</u> |
| Backflush tank: | <u>N/A</u> |
| Main lift station: | <u>N/A</u> |
| North lift station: | <u>N/A</u> |
| South lift station: | <u>N/A</u> |

Additional Comments, Recommendations and System Upsets:

Lead GAC vessel will need to be back flushed soon. Cartridge filters were changed out twice in the past 24 hours.

Elaine Lytle

Technician

Water Treatment Tech

Title

1/7/2020

Date

Submit